

INTERNATIONAL ASSOCIATION FOR TESTING MATERIALS.

AMERICAN SECTION.

BULLETIN No. 23.

JUNE, 1901.

LIST OF MEMBERS OF THE AMERICAN SECTION OF THE INTERNATIONAL ASSOCIATION FOR TESTING MATERIALS.

	Date of mem- bership.
AERTSEN, GUILLIAEM	1898.
General Manager Latrobe Steel Company, 1200 Girard Building, Philadelphia, Pa.	
AMERICAN FOUNDRYMEN'S ASSOCIATION.....	1898.
Richard Moldenke, Secretary, P. O. Box 432, New York, N. Y.	
AMERICAN SOCIETY OF MECHANICAL ENGINEERS	1897.
F. R. Hutton, Secretary, 12 West 31st Street, New York, N. Y.	
AMERICAN STEEL & WIRE COMPANY.....	1900.
The Rookery, Chicago, Ill.	
ANDERSON, FREDERICK PAUL.....	1899.
Dean of School of Mechanical Engineering, State College of Kentucky, Lexington, Ky.	
ANDERSON, J. W	1896.
Carbon Steel Company, Pittsburg, Pa.	
ANDERSON, R. WILSON.....	1897.
Superintendent Open Hearth, Carbon Steel Com- pany, Pittsburg, Pa.	

BARBOUR, FRANK A	1898.
Civil Engineer, Snow & Barbour, 1121 Tremont Building, Boston, Mass.	
BENNEVILLE, JAMES S. DE	1896.
Analytical Chemist, University Club, 1510 Walnut Street, Philadelphia, Pa.	
BETHLEHEM STEEL COMPANY.....	1898.
Albert Ladd Colby, Metallurgical Engineer, South Bethlehem, Pa.	
BISSELL, GEORGE W.....	1896.
Professor Mechanical Engineering, Iowa State College, Ames, Iowa.	
BLACK, W. P.....	1896.
Manufacturer, Erie, Pa.	
BOOTH, GARRETT & BLAIR.....	1896.
Engineers and Chemists, 406 Locust Street, Philadelphia, Pa.	
BRAINE, L. F.....	1900.
General Manager Continuous Rail Joint Company, Newark, N. J.	
BRAMWELL, JOSEPH W.....	1898.
Philadelphia Machine Tool Company, Philadelphia, Pa.	
BROADHURST, W. H.....	1899.
Chemist, Department of Highways, 13-21 Park Row, New York, N. Y.	
BROCK, ARTHUR.....	1900.
President American Iron & Steel Manufacturing Company, Lebanon, Pa.	
BROWN, WILLIAM	1899.
Superintendent of Steel Plant and Engineer of Tests, Phoenix Iron Works, Phoenixville, Pa.	
BRUNT, H. L.....	1896.
Secretary and Treasurer of Monongahela Iron and Steel Company, Box 215, Pittsburg, Pa.	
BUEL, ALBERT W.....	1898.
Civil Engineer, 11 West Twenty-fifth Street, New York, N. Y.	
BURR, WILLIAM H.....	1899.
Professor of Civil Engineering, Columbia University, New York, N. Y.	

LIST OF MEMBERS.

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BURY, EDMUND	1901.
Foreman Tool and Physical Test Departments, Ingersoll-Sergeant Drill Company, Easton, Pa.	
CAMBRIA STEEL COMPANY	1899.
Charles S. Price, General Manager, Johnstown, Pa.	
CAMPBELL, H. H.	1896.
Superintendent and General Manager Pennsylvania Steel Company, Steelton, Pa.	
CAPP, JOHN A.	1898.
Engineer, Testing Laboratory, General Electric Company, Schenectady, N. Y.	
CARBOLINEUM WOOD PRESERVING COMPANY	1899.
C. S. McKinney, Manager, Park Row, New York, N. Y.	
CARNEGIE STEEL COMPANY.....	1898.
John McLeod, Asst. to President, Pittsburg, Pa.	
CARPENTER, ROLLA C.	1895.
Professor Experimental Engineering, Cornell University, 31 Eddy Street, Ithaca, N. Y.	
CARTER, ROBERT A.	1899.
President Monongahela Iron & Steel Company, Box 215, Pittsburg, Pa.	
CHURCHILL, CHARLES S.	1900.
Engineer Maintenance of Way, Norfolk & Western Railway, Roanoke, Va.	
CHRISTIE, JAMES	1898.
Chief Mechanical Engineer, American Bridge Company, Pencoyd, Pa.	
CLARK, F. H.	1900.
Mechanical Engineer, Chicago, Burlington & Quincy Railroad, 209 Adams Street, Chicago, Ill.	
COFFIN, JOHN N.....	1901.
Consulting Mechanical Engineer, 312 Perry Payne Building, Cleveland, Ohio.	
COLBY, ALBERT LADD	1899.
Metallurgical Engineer, Bethlehem Steel Company, South Bethlehem, Pa.	
COLBY, J. ALLEN	1899.
Inspecting Engineer, Witherspoon Building, Philadelphia, Pa.	

COLORADO FUEL AND IRON COMPANY	1900.
J. A. Kebler, Second Vice-President and General Manager, Boston Building, Denver, Colo.	
CONDON, T. L.....	1900.
Resident Engineer, Pittsburg Testing Laboratory, 1750 Monadnock Building, Chicago, Ill.	
CORTHELL, E. L.....	1899.
Civil Engineer, 27 Pine Street, New York, N. Y.	
CRIUKSHANK, BARTON.....	1899.
Director Clarkson School of Technology, Potsdam, N. Y.	
DANIELS, FREDERICK H.....	1899.
Chief Engineer American Steel and Wire Company, Worcester, Mass.	
DAVIDSON, GEORGE M.....	1900.
Engineer of Tests, Chicago & Northwestern Rail- road, Chicago, Ill.	
DEANS, JOHN STERLING	1899.
Chief Engineer Phoenix Bridge Company, Phoenix- ville, Pa.	
DOW, A. W.....	1898.
Inspector of Asphalts and Cements, District of Columbia, Washington, D. C.	
DROWN, THOMAS M	1899.
President Lehigh University, South Bethlehem, Pa.	
DUDLEY, CHARLES B.....	1896.
Chemist Pennsylvania Railroad, Altoona, Pa.	
DUFOUR, F. O.....	1901.
Instructor in Civil Engineering in Lehigh University, South Bethlehem, Pa.	
DUGAN, CHARLES M., JR.....	1900.
Chemist, 2139 North Seventh Street, Philadelphia, Pa.	
ELY, THEODORE N.....	1896.
Chief of Motive Power, Pennsylvania Railroad, Broad Street Station, Philadelphia, Pa.	
EMRIE, ALMON.....	1901.
Superintendent Ingersoll-Sergeant Drill Company, Easton, Pa.	

ENGINEERING RECORD.....	1898.
Henry C. Meyer, Jr., Editorial Staff, 100 William Street, New York, N. Y.	
ESTRADA, E. D	1896.
Mechanical Engineer, Lewis Block, Pittsburg, Pa.	
FAHRIG, ERNST.....	1900.
Chief of Laboratories, Philadelphia Commercial Museums, Philadelphia, Pa.	
FLAGG, STANLEY G., JR.....	1899.
Stanley G. Flagg & Company, Nineteenth Street and Pennsylvania Avenue, Philadelphia, Pa.	
FRANKLIN INSTITUTE	1898.
Dr. William H. Wahl, Secretary, 15 South Seventh Street, Philadelphia, Pa.	
FREEMAN, S. E	1901.
Consulting Mechanical Engineer, 4052 Olive Street, St. Louis, Mo.	
GISSLER, E. A	1898.
Assistant Engineer United States Engineer Office, Savannah, Ga.	
GOLDSBOROUGH, W. E.....	1899.
Professor Electrical Engineering, Director Electrical Laboratory, Purdue University, 618 South Street, Lafayette, Ind.	
GOSS, WILLIAM F. M	1896.
Professor of Mechanical Engineering, Purdue University, Lafayette, Ind.	
GRAVES, EDWIN G.....	1899.
Civil Engineer, 650 Main Street, Hartford, Conn.	
GRAY, THOMAS	1896.
Professor Dynamic Engineering, Rose Polytechnic Institute, Terre Haute, Ind.	
GRIST, B. N	1900.
Superintendent Riehle Bros. Testing Machine Company, 4108 Westminster Avenue, Philadelphia, Pa.	
HAGAR, EDWARD M.....	1901.
Manager Cement Department, Illinois Steel Company, 1060 The Rookery, Chicago, Ill.	
HARTMANFT, WILLIAM G.....	1898.
Cement Manufacturer, 305 Girard Building, Philadelphia, Pa.	

HATT, WILLIAM K.....	1898.
Associate Professor of Applied Mechanics, Purdue University, Lafayette, Ind.	
HAYDOCK, R. R.....	1901.
Engineer, 421 Chestnut Street, Philadelphia, Pa.	
HOWE, HENRY M.....	1896.
Professor Metallurgy, Columbia University, 27 West Seventy-third Street, New York, N. Y.	
HUMPHREY, RICHARD L.....	1896.
Manager Buckhorn Portland Cement Company, Girard Building, Philadelphia, Pa.	
HUNT, ROBERT W., COMPANY	1899.
Inspecting and Testing Engineers, 1121 The Rookery, Chicago, Ill.	
HUSTON, CHARLES L.....	1899.
Vice-President Lukens Iron and Steel Company, Coatesville, Pa.	
ILLINOIS STEEL COMPANY.....	1900.
Rookery Building, Chicago, Ill.	
IRELAND, GUY L.....	1898.
Mechanical Engineer, 314 Crown Street, New Haven, Conn.	
JARECKI, ALEXANDER	1896.
Superintendent Jarecki Manufacturing Company, Limited, Erie, Pa.	
JENKINS, JOHN	1897.
General Manager Milton Iron Company, Milton, Pa.	
JESSUP, ALFRED E.....	1900.
Engineer of Tests, Treasury Department, Washington, D. C.	
JEWETT, J. Y	1900.
Cement Inspector, Metropolitan Water Board of Massachusetts, Clinton, Mass.	
JOB, ROBERT	1900.
Chemist, Philadelphia & Reading Railway, Philadelphia, Pa.	
JOHNSON, JOHN B	1899.
Dean of College of Mechanics and Engineering, University of Wisconsin, Madison, Wis.	
JOHNSON, WALLACE C	1900.
Consulting Engineer, Niagara Falls, N. Y.	

LIST OF MEMBERS.

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KEEP, WILLIAM J	1896.
Superintendent Michigan Stove Company, 753 Jefferson Avenue, Detroit, Mich.	
KEMP, JAMES F	1898.
Professor of Geology, School of Mines, Columbia University, New York, N. Y.	
KENNEDY, FRANK G., Jr.....	1899.
Superintendent Logan Iron and Steel Company, Burnham, Mifflin County, Pa.	
KENNEDY, JULIAN.....	1899.
Consulting Engineer, Latrobe Company, Pittsburg, Pa.	
KING, WILLIS L.....	1899.
Vice-Chairman Jones & Laughlins, Limited, Pittsburg, Pa.	
KINKEAD, J. F	1899.
Inspector Chicago & Northwestern Railway Company, 507 Smithfield Street, Pittsburg, Pa.	
KREUZPOINTNER, PAUL	1896.
Engineer of Tests, Pennsylvania Railroad, Altoona, Pa.	
LANDRETH, OLIN H	1896.
Professor Engineering, Union College, Schenectady, N. Y.	
LANZA, GAETANO	1899.
Professor Theoretical and Applied Mechanics, in charge Mechanical Engineering Department, Massachusetts Institute of Technology, Boston, Mass.	
LARKIN, JOHN P	1901.
Engineer, 430 Endicott Building, St. Paul Minn.	
LATHBURY & SPACKMAN	1898.
Chemical and Physical Laboratories, 1619 Filbert Street, Philadelphia, Pa.	
LATROBE STEEL COMPANY	1898.
Marriot C. Smyth, President, 1200 Girard Building, Philadelphia, Pa.	
LAWRENCE, WILLIAM H	1901.
Assistant Professor of Architecture, Massachusetts Institute of Technology, Boston, Mass.	

LESLEY, ROBERT W	1898.
Vice-President American Cement Company, 22 South Fifteenth Street, Philadelphia, Pa.	
LINDENTHAL, GUSTAV	1896.
Chief Engineer North River Bridge Company, 45 Cedar Street, New York, N. Y.	
LOWE BROTHERS	1899.
Paint and Color Makers ; Huston Lowe, Vice-Presi- dent, Dayton, Ohio.	
LOWETH, CHARLES F	1900.
Engineer and Superintendent of Bridges and Build- ings, C. M. & St. P. Ry., 1100 Old Colony Building, Chicago, Ill.	
LUNDTEIGEN, ANDREAS	1898.
Chemist, Union City, Mich.	
MACLAY, WILLIAM W.....	1895.
President Glens Falls Portland Cement Company, Glens Falls, N. Y.	
MARBURG, EDGAR.....	1898.
Professor of Civil Engineering, University of Penn- sylvania, Philadelphia, Pa.	
MARCH, H. J.....	1899.
Civil Engineer, 13 City Hall, Buffalo, N. Y.	
*MCCAULEY, G. M	1898.
Treasurer and General Manager Central Iron and Steel Company, Harrisburg, Pa.	
MCCAULEY, H. K.....	1896.
Secretary and Treasurer Altoona Iron Company, Altoona, Pa.	
MCKENNA, CHARLES F.....	1896.
Chemist, 221 Pearl Street, New York, N. Y.	
MEADE, RICHARD K.....	1899.
Assistant in Chemistry, Lafayette College, Easton, Pa.	
MERRIMAN, MANSFIELD	1895.
Professor of Civil Engineering, Lehigh University, South Bethlehem, Pa.	
MERRITT, JAMES S	1898.
Mechanical Engineer, 1028 Ridge Avenue, Phila- delphia, Pa.	

* Died May 25, 1901.

LIST OF MEMBERS.

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MILLS, CHARLES M	1900.
Assistant Engineer in charge of Bridges, Bureau of Surveys, 418 City Hall, Philadelphia, Pa.	
MITCHELL, WILLIAM H	1901.
Engineer, 100 Broadway, New York, N. Y.	
MOLDENKE, RICHARD G. G.....	1896.
Metallurgist, Consulting Engineer, Box 432, New York, N. Y.	
MORISON, GEORGE S.....	1896.
Consulting Engineer, 49 Wall Street, New York, N. Y.	
MORSE, ALBERT C.....	1900.
General Superintendent Shelby Steel Tube Company, Shelby, Ohio.	
MORTON, HENRY	1896.
President Stevens Institute of Technology, Hoboken, N. J.	
MUESER, WILLIAM	1899.
Civil Engineer, 13-21 Park Row, New York, N. Y.	
MUTUAL BOILER INSURANCE COMPANY.....	1899.
31 Milk Street, Boston, Mass.	
NATIONAL TUBE COMPANY	1900.
Conestago Building, Pittsburg, Pa.	
NEALE, JAMES	1896.
Secretary Wayne Iron Works, Pittsburg, Pa.	
NELSON, E	1901.
Engineer, 1433 Marquette Building, Chicago, Ill.	
NEWBERRY, SPENCER B	1898.
Manager Sandusky Portland Cement Company, Sandusky, Ohio.	
OLSEN, TINIUS	1898.
Tinius Olsen & Company, Testing Machines, 500 North Twelfth Street, Philadelphia, Pa.	
OSBORN, FRANK C.....	1898.
The Osborn Engineering Company, Cleveland, Ohio.	
PEASE, F. N	1896.
Assistant Chemist Pennsylvania Railroad, Altoona, Pa.	
PHILIPS, NIMICK & COMPANY.....	1898.
Sligo Mills, Pittsburg, Pa.	

PORTER, JAMES MADISON	1898.
Professor of Civil Engineering, Lafayette College, Easton, Pa.	
RAILROAD GAZETTE	1898.
H. G. Prout, Editor, 32 Park Place, New York, N. Y.	
RANDOLPH, LINGAN S	1896.
Professor of Mechanical Engineering, Virginia Poly- technic Institute, Blacksburg, Va.	
RICE, FRANCIS S	1898.
Structural Engineer, S. V. Huber & Company, Rooms 702-707 Ferguson Block, Pittsburg, Pa.	
RICHARDS, JOSEPH T	1900.
Engineer Maintenance of Way, Pennsylvania Rail- road, Broad Street Station, Philadelphia, Pa.	
RICHARDSON, CLIFFORD	1896.
Asphalt Expert, New York Testing Laboratory, Long Island City, N. Y.	
RICHTER, A. W.	1900.
Assistant Professor of Experimental Engineering, 428 Murray Street, Madison, Wis.	
RIEHLÉ, FREDERICK A	1898.
Riehlé Bros. Testing Machine Company, 1424 North Ninth Street, Philadelphia, Pa.	
ROEBLING'S (JOHN A.) SONS CO.	1900.
Wire Manufacturers, Trenton, N. J.	
ROTHBURG, M. E.	1896.
Chief Chemist Cambria Steel Company, Westmont, Johnstown, Pa.	
ROWLAND, JOHN F., JR	1898.
Professor of Mechanical Engineering, Drexel Insti- tute, Philadelphia, Pa.	
SABIN, A. H	1898.
Chemist, 45 Broadway, New York, N. Y.	
SAUVEUR, ALBERT	1896.
Manager Boston Testing Laboratories, 446 Tremont Street, Boston, Mass.	
SCHAFER, HERBERT A	1898.
Chemist Vulcanite Portland Cement Company, Phillipsburg, N. J.	

SCHNEIDER, HERMAN	1900.
Instructor in Civil Engineering, Lehigh University, South Bethlehem, Pa.	
SCHUMANN, FRANCIS.....	1898.
Civil and Mechanical Engineer, 7000 Tulip Street, Tacony, Philadelphia, Pa.	
SEAMAN, HARRY J	1898.
Superintendent Atlas Cement Company, Catasauqua, Pa.	
SHIMER, PORTER W.....	1899.
Chemist and Metallurgist, Lafayette College, Easton, Pa.	
STAUFFER, DAVID MCN	1896.
Civil Engineer, Editor Engineering News, 220 Broad- way, New York, N. Y.	
STEINMAN, A. J.....	1899.
Chairman Pennsylvania Iron Company, Limited, Lancaster, Pa.	
STEVENSON, A. A	1896.
Assistant Superintendent Standard Steel Works, Burnham, Mifflin County, Pa.	
STILLMAN, THOMAS B	1899.
Chemist, Stevens Institute of Technology, Hoboken, N. J.	
STROBEL, CHARLES L	1896.
Consulting Engineer, 1744 Monadnock Block, Chicago, Ill.	
SWAIN, GEORGE F.....	1896.
Professor of Civil Engineering, Massachusetts Insti- tute of Technology, Boston, Mass.	
TALBOT, ARTHUR N	1898.
Professor of Municipal and Sanitary Engineering, University of Illinois, Urbana, Ill.	
TAYLOR, WILLIAM PERVUS	1900.
Inspector of Cement, 418 City Hall, Philadelphia, Pa.	
TECHNISCHER VEREIN BROOKLYN.....	1896.
Bartholomew Viola, Secretary, 11 Bartlett Street, Brooklyn, N. Y.	
TECHNISCHER VEREIN NEW YORK	1896.
Carl Kaelble, Secretary, Room 705, 290 Broadway, New York, N. Y.	

TECHNISCHER VEREIN PHILADELPHIA.....	1896.
534 North Fourth Street, Philadelphia, Pa.	
TECHNISCHER VEREIN PITTSBURG.....	1896.
H. W. Bernard, Secretary, 305 Penn Avenue, Allegheny, Pa.	
TECHNISCHER VEREIN WASHINGTON	1896.
Paul Bausch, Corresponding Secretary, 719 Sixth Street, N. W., Washington, D. C.	
THACKRAY, GEORGE E	1899.
Structural Engineer Cambria Steel Company, Johnstown, Pa.	
THOMAS, DAVID.....	1900.
Assistant Superintendent, Reading Iron Company, Danville, Pa.	
THURSTON, ROBERT H.....	1896.
Director Sibley College, Cornell University, Ithaca, N. Y.	
TIPPETT & WOOD.....	1900.
Plate Iron and Steel Workers, Phillipsburg, N. J.	
VOGT, A. S.....	1896.
Mechanical Engineer, Pennsylvania Railroad, Altoona, Pa.	
WADDELL, J. A. L.....	1896.
Consulting Civil Engineer, Kansas City, Mo.	
WAGNER, SAMUEL TOBIAS	1899.
First-Assistant Engineer, Bureau of Surveys, City Hall, Philadelphia, Pa.	
WEBSTER, GEORGE S	1900.
Chief Engineer and Surveyor, Bureau of Surveys, 418 City Hall, Philadelphia, Pa.	
WEBSTER, WILLIAM R	1898.
Civil Engineer, 411 Walnut Street, Philadelphia, Pa.	
WEST, THOMAS D.....	1897.
Foundry Expert, Sharpsville, Pa.	
WHITEHEAD, J. W., JR	1900.
National Lead Company, 1510 State Street, Chicago, Ill.	
WICKHORST, MAX H.....	1898.
Engineer of Tests, Chicago, Burlington and Quincy Railroad, Aurora, Ill.	

LIST OF MEMBERS.

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- WILLE, H. V 1898.
 Engineer of Tests, Baldwin Locomotive Works, 500
 North Broad Street, Philadelphia, Pa.
- WING, CHARLES B 1900.
 Professor of Structural Engineering, Stanford Uni-
 versity, Cal.
- WOOD, WALTER 1900.
 Cast Iron Pipe Manufacturer, R. D. Wood Company,
 400 Chestnut Street, Philadelphia, Pa.
- WOOLSON, IRA H 1900.
 Instructor in Mechanical Engineering, Columbia
 University, New York, N. Y.

BY-LAWS OF THE AMERICAN SECTION.

Adopted August 27, 1898.

Revised October 26, 1900.

ARTICLE 1.—The name of this organization shall be the "American Section of the International Association for Testing Materials."

ARTICLE 2.—The objects of the American Section shall be to unite more closely those members of the International Association living on the Western Continent, and to cooperate in the promotion of the purposes of this Association.

ARTICLE 3.—Each member shall pay on the first of January of each year, to the Secretary of the American Section, the sum of \$2.50, annual dues for the current year.

Of this amount, \$1.50 shall be transmitted to the International Association by the Treasurer of the American Section, and the remainder shall be used to defray the expenses of the American Section.

Any member of the American Section whose dues shall remain unpaid for the period of one year shall be reported to the Council of the International Association.

ARTICLE 4.—The officers of the American Section shall be a Chairman, Vice-Chairman, Secretary, and Treasurer, who shall hold office for two years.

The Executive Committee shall consist of these officers together with two members, one being elected at each Annual Meeting, and each of them serving for two years.

The chairman shall be, *ex-officio*, the nominee for American Member of the Council of the International Association.

ARTICLE 5.—The American Section shall meet annually. The time and place of each meeting shall be fixed by the Executive Committee.

Special meetings shall be called whenever the Executive Committee shall deem it necessary.

PROCESS OF MANUFACTURE.

1. Wrought iron shall be made by the puddling or by the charcoal hearth process or rolled from fagots or piles made from wrought iron scrap, alone or with muck bar added.